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73rd I. S. P. E. BOARD OF DIRECTION (See page 2)

THE ILLINOIS ENGINEER, MAY, 1957—VOLUME XXXIII, NO. 5

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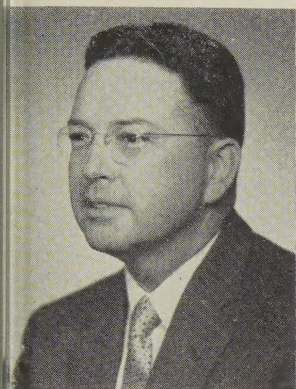
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Of Interest to I. S. P. E.

PRESIDENT'S MESSAGE

Seventy-two proud and successful years of history: starting the seventy-third year!

It is now up to the officers and current committees to make it another banner year for the Society. An excellent example was set last year and in previous years. Many sincere thanks to the Chicago Chapter and to all those who helped make the Seventy-second Annual Meeting a great success! This was an excellent climax after seventy-two years, and a good start for the seventy-third year.



President Neureuther

The I. S. P. E. has firm foundations on which it is building. It has a basic vitality to provide a steady growth as the years go on. Even if little is done the growth will be steady and sure. However, the Society seems poised at this time for a great rise and expansion of membership, accomplishments, prestige and influence in the engineering world. Will this be the year of spectacular achievements toward the worthy goals of our Society?

What will stimulate the Society to suddenly utilize its pent-up potentials and grow faster? Will the impetus come from an internal source, or will an external crisis or pressure alert the Society and cause it to show its mettle? Some day the incentive will occur. Great strides will be the result. Can this be the year?

Not everyone in the Society has a specific assignment at State level. The individual member will surely get his greatest enjoyment and satisfaction through chapter activities where he is close to home and where frequent participation is easiest for all. Each member must attend chapter functions to enjoy them. He must take part, and help create an Engineers Club atmosphere which is thriving for all to enjoy. Each of us must do our bit to make the chapter thrive.

How long since you have attended a meeting? How long since you have served on a committee? How long since you have been a chapter officer? How long since you have brought a guest? How long since you have supplied an entertaining, educational, inspirational program for a chapter meeting?

Become active! Do your bit! The personal rewards are certain to be most gratifying.

A new opportunity for each member to enjoy the activities and benefits of the Society lies in the functional

(Continued on page 2)

VOX SECRETARII

By P. E. ROBERTS, *Executive Secretary*

72nd Annual Meeting Notes

Two innovations made the 72nd Annual Meeting of the Society memorable; namely, the symposia on Registration Laws and Fees and Salaries and the group discussions on Functional Sections.

Oldtimers in the Society will remember when the general sessions of the Society were held and followed by group sections on various technical interests of members of the Illinois Society. For example, at the 52nd Annual Meeting of the Society, which was held in Chicago in January, 1937, Thursday's program included simultaneous sessions of the Surveying section, Electrical, Mechanical and Mining sections, and Drainage section. The Annual Business Meeting of the Society was held at 7:00 p. m. on Thursday. On Friday the Roads and Pavements section met and heard eight papers between 9:00 a. m. and noon. The Water Supply section met at the same time and heard five papers. On Friday afternoon there were sessions held on professional activities and public relations, followed by the Annual Banquet Friday night. Saturday morning's session heard four papers at the Sewerage section and four papers at the Structural section. Saturday afternoon there was an inspection trip to the Stickney Plant of the Sanitary Department of Chicago.

The Registration Law Symposium was presided over by Royce Johnson, and consisted of the following panel: George Farnsworth, chairman, Dr. E. R. Whitehead, and Leo M. Spurling.

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The Fees and Salaries Symposium was presided over by Linas H. Brown and consisted of the following panel members: L. K. Crawford, chairman, and Gordon V. Carlson.

Following the discussion of the problems in each symposium, a generous amount of time was devoted to questions and discussions from members who attended. As usual, the Board of Direction met on Thursday morning and conducted an all-day meeting receiving the Annual Committee reports and winding up its business for the year.

On Friday morning the Functional Sections met in general session and heard an address by Mr. Alfred H. Samborn. The text of his speech will be found in other pages of this issue. At the close of Mr. Samborn's speech the group broke up into the following seven sections: Industry, chairmanned by Royce E. Johnson; Education, chairmanned by Lawrence Doyle; Highways, chairmanned by Kenneth E. Welton; Private Practice, chairmanned by Frank W. Edwards; Government, chairmanned by LeVerne Hudson; Utilities, chairmanned by Gordon Carlson; surveying, chairmanned by Arnold Lundgren.

On Friday night the Annual Banquet was addressed by Dr. Leland H. Carlson, who gave a very inspiring talk titled "The Marks of an Educated Man."

On Saturday morning the 73rd Board of Direction met and organized. Committee appointments were heard and other business brought to the attention of the Board was conducted.

The Exhibitors' room was open from Thursday morning through Saturday noon.

The same amount of lapsed time, that is from Thursday morning at 8:30 until Saturday noon, was used as has been used at Annual Meetings during the past ten years; however, this is the first time in several years that simultaneous meetings have been held. Also, it is to be noted that the plea to streamline Annual Committee Reports was heard and observed. The participation in the 72nd Annual Meeting by members was greater this year than it has been for many years. Also, the condensing of the time devoted to the Annual Business Meeting from all day on Friday to three hours on Friday afternoon was beneficial rather than otherwise. The business was conducted with alacrity by President Johnson and everyone who wanted to be heard was heard. The streamlining is all to the good and can be profitably continued by succeeding administrations.

I hold every man a debtor to his profession;
from the which as men of course do seek to receive
countenance and profit, so ought they of duty
to endeavor themselves by way of amends
to be a help and ornament thereunto.

Sir Francis Bacon

PRESIDENT'S MESSAGE (Continued)

sections organized at the 72nd Annual Meeting. This organization is just starting, so get into a functional section yourself and be a charter member. Those who participate are sure to find that I. S. P. E. will be doing more for them.

Of course, there are problems which are both new and old. There are tasks to be performed. There lie your opportunities to act, to achieve, and to gain the satisfaction of things well done. Interesting activities are not burdens. Life can become humdrum without definite things to do.

The foremost task is membership recruiting. Why doesn't the Society grow faster? In one chapter it grew 35%, net, last year. This could have been 50% if some of the old members had not dropped out of the chapter. Just imagine, 35% for the whole Society is hundreds of new members; thousands of dollars more income to the budget for benefits to all members of the Society in worthwhile state activities and programs! This would be a transfusion of new life and new blood for the Society! It means new friendships and associations for all. Remember, nothing succeeds like success!

Apparently this success merely takes work, time and effort. Can't the other fifteen chapters do the same? This one chapter did it while some of the chapters were apparently not real active. This successful chapter may now rest on its oars while some other chapters do the bit.

Here is a challenge; it has been done; can you and your chapter do it? Of course you *can*, but *will* you?

Don't forget that your ideas, help, and advice are needed by the President and all the other Society officers at all levels, and your suggestions are welcome!

May this be a happy seventy-third year for I. S. P. E. and every member!

A. W. NEUREUTHER, *President.*

73rd BOARD OF DIRECTION

(cover picture)

CHICAGO, ILLINOIS, APRIL 13, 1957

First row, left to right: P. E. Roberts, Executive Secretary; Royce E. Johnson, Past President; Frank W. Edwards, Vice President; A. W. Neureuther, President; A. Douglas Spicer, Secretary-Treasurer; Dwain M. Wallace, National Director; W. Wayne Wallace, National Director. Second row: Francis Sexton, Illinois Valley; Arnold Lundgren, Rockford; C. Dale Greffe, Champaign Co.; E. V. Ellifrit, Rock River; Irwin R. Lietzke, Lake County. Third row: C. E. Missman, West Central; John Henline, Ambraw. Third row: E. M. Anderson, Champaign Co.; L. D. Hudson, Capital; A. C. Kessell, Capital; Richard Thornton, DuKane; Alois Graf, Chicago; Harold Sommerschild, Chicago; John Housiaux, Central Illinois.

During a prize-fight a boxer staggered over to his manager and asked, "Have I done him any damage?" "No," replied the disgusted manager, "but keep swinging. The draft may give him a cold."—*Capper Weekly.*

ILLINOIS AWARD TO SPICER

The Illinois Society of Professional Engineers at its 72nd Annual Meeting in Chicago presented the Illinois Award to Mr. A. Douglas Spicer, Plant Engineer, Kewanee Boiler Company, Kewanee, Illinois.

The Award reads, "For his meritorious service in protecting and elevating the Profession of Engineering, and for his devotion of thought and energy to safeguarding the welfare of the general public."

Mr. Spicer has served on many committees of the Illinois Society of Professional Engineers, was its Vice President in 1951, its President in 1952, and its Secretary-Treasurer in 1953, in which office he is still serving the Society.

The Award was made by President Johnson at the 72nd Annual Banquet of the Society on Friday night at the Sherman Hotel.

Former recipients of the Award are:

1931	W. W. Mathews
1932	W. B. Walraven
1933	M. B. Reynolds and A. E. Green
1934	A. C. Stanfield
1935	none
1936	S. M. Wood
1937	L. C. Whittemore and N. E. Anderson
1938	J. R. Longley
1939	S. M. Wood
1940	none
1941	H. E. Babbitt
1942	F. L. Osborn
1943	A. P. Greensfelder
1944	S. M. Wood
1945	Alex Van Praag, Jr.
1946	V. E. Gunlock
1947	Col. W. E. Trover
1948	A. M. Kandl
1949	Leo M. Spurling
1950	H. E. Babbitt
1951	C. W. Klassen
1952	George E. Ekblaw
1953	none
1954	William L. Everitt
1955	F. W. Edwards

Engineering Societies' Personnel Service

Since I volunteered to write the announcement, I suggest that you print the following announcement in the next issue of the Illinois Engineer:

ESPS ANNOUNCEMENT

E. S. P. S. job listings are no longer being published in the *Illinois Engineer*, by decision of the I. S. P. E. Board of Direction at its January meeting.

To use the Engineering Societies Personnel Service please contact E. S. P. S. at 84 East Randolph Street, Chicago, Illinois, or other E. S. P. S. offices as usual.

ANDREW W. NEUREUTHER, *President*

Obituaries

PHILIP Z. HORTON, SR.

Philip Z. Horton, Sr., (S '19, N '36) a charter member of Peoria Area Chapter, died in Rochester, Minnesota on April 15. He had been a patient there for four days.

Mr. Horton was born in Peoria on October 24, 1885. He graduated from Bradley in 1905, entered Cornell University at Ithaca, New York, where he graduated with a B.S. in Civil Engineering in 1909. At Bradley Mr. Horton participated in all major sports and was on the sports honor roll. At Cornell he was stroke on the varsity crew.

He began his engineering career with the Corps of Engineers on the Ohio River. In 1913 he returned to Peoria and entered business with a former Cornell classmate who was killed in World War I. In recent years Mr. Horton and his son Philip, Jr. have been partners in business.

Mr. Horton was a charter member of the University Club in Peoria, a member of the Ivy Club, A.S.C.E., American Military Engineers, and Illinois and National Societies of Professional Engineers. He served on several state and chapter committees.

JOHN K. STAATS

John K. Staats, (S '46, N '50) a member of Illinois Valley Chapter, died in April (exact date unknown).

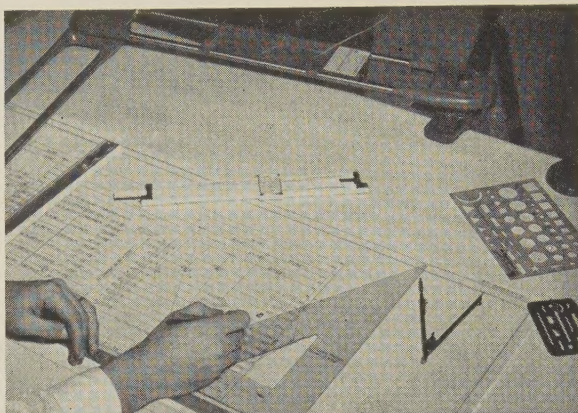
Mr. Staats was born on November 12, 1904 in Philadelphia. He received his education at Drexel Institute and Temple University. He moved to Joliet in 1944 as supervisor of power, production and power plant for Rubberoid Company at Joliet.

In 1948 he served as Secretary-Treasurer of Joliet Chapter and was President of the Chapter in 1949. He was on the State Membership Committee in 1951 and 1952. In 1950 he moved to LaSalle, where he was connected with Engineering Sales and Services Company.



Three Presidents: Ohio's Samborn, NSPE's Rhinehart, Illinois' Johnson.

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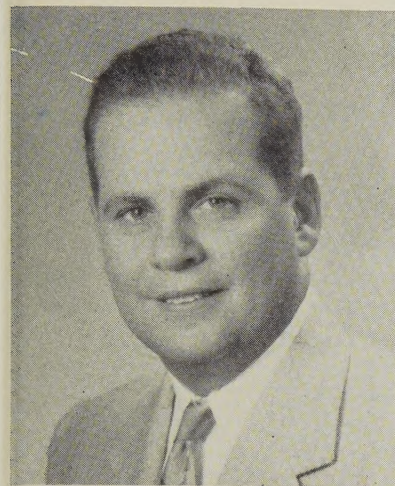
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FUNCTIONAL GROUPS

By ALFRED H. SAMBORN

Mr. Chairman and fellow engineers, I am indeed pleased to have the privilege of being at your 72nd Annual Illinois Society of Professional Engineers Con-

vention, especially to offer you the ideas and experiences of the Ohio Society of Professional Engineers in working with functional groups. We, very definitely, feel that functional groups have been the lifeline of our Society. They have been exceptionally instrumental in providing for our growth as the largest state society in N.S.P.E.



Alfred H. Samborn

The professional movement was established for the purpose of advancing the professional, social, ethical, and economic status of the engineer. It has a broad concept in administering to the needs of all engineers rather than to a small segment. History is replete with examples of the necessity for an organization representing everyone in the profession, rather than the short sighted viewpoint where isolated groups seek only to advance their own welfare. The multiplicity of engineering groups has been confusing to the public in our efforts to instill the idea that engineering is a profession—a unified group—rather than a multitude of fragmentary groups.

The professional, ethical and economic phases vary somewhat, depending upon the occupation or calling of an engineer. This is more true of engineering than any of the other professions. For example, the professional problems of the engineer in industry differ from those of the highway engineer, or those of the engineer in private practice differ from those of the engineers with public utilities. Regardless of how these problems may vary in details, they have common grounds which must be established in our contacts with the public. The desire of fragmentary sections to consider their own immediate smaller problems, without recognizing the far greater long-range problems common to all, has been responsible for the formation of these small groups. Unfortunately, this tendency continues to mushroom as rapidly increasing developments lead to more specialization in the engineering field.

In our one society concept it is necessary for us to provide some media whereby these specialized groups may formulate their specific needs. Along with this need for the analyzing and pinpointing of special problems

dealing with special segments of the engineering profession is the recognition of the need for these problems to be co-ordinated and presented by the overall professional body.

It was just such a need as this which resulted in the first functional groups being formed as an activity of the Ohio Society of Professional Engineers in 1939. Prior to 1939, the Ohio Engineering Society, our predecessor, had set aside time at their annual meeting allocated for group meetings of common technical interests. With our change-over to that of being a professional society, dealing with professional problems, it soon became apparent that it was necessary for provision to be made for discussion of problems which were of common interest to particular groups. A special committee was named to study this matter and to make recommendations. The recommendation forthcoming was that of functional groups and the entire plan was evolved from this consideration.

The term "functional" was chosen as being descriptive of the idea — pertaining to or performing of function.

The O. S. P. E. constitution was changed and provision was made for setting up such functional groups. The chairman of the functional group was to be a member of the Board of Trustees and, thus it is today, that we are operating under a by-law which permits activities of functional groups.

The original functional group, which was formed under the provision of our constitution, was the highway engineers. Now, this one group idea has expanded to 7 sister groups, a total of 8, with our freshman functional group being the "engineers in contracting."

Basically, our groups are set up as forum type discussion groups, which hold at least two meetings a year at our annual convention. During the last several years, with our rapid growth in the Ohio Society, we find that under their own initiative, the functional groups are scheduling quarterly, semi-annually, or oftener overall group meetings. In addition, the executive committees of the functional group hold monthly planning meetings, and make other special effort to reach their membership. Yearly, each functional group is highlighted in a specifically assigned month in the "Ohio Engineer." The functional groups have displayed tremendous energy in this activity and are competing very definitely to outdo each other in providing for the best monthly issue.

Membership in a functional group is open to any member of the Ohio Society, having common professional interests and problems with that group. Presently, I must admit that we are studying a revision to our by-laws, which would provide for explicit active participating membership in our functional groups. We will readily admit that the expansion of our Society is forcing

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us to consider ways and means to permit increased activity in functional groups. We have a special committee studying the feasibility of editing a manual of operation and policies for functional groups.

I think very briefly, I have discussed with you what a functional group is as well as giving you the outstanding *reason* why they have come about. At this point, I should like to continue on giving you a picture of what they can do or are doing in our Ohio Society.

For instance, from the Highway Functional Group have come suggestions to the Board of Trustees of the Ohio Society that we participate actively in encouraging our Honorable Governor of the State of Ohio to consider favorably the appointment of a highway director who was a professional engineer. We were greatly rewarded, in this present instance, when the Honorable William O'Neill not only appointed a capable registered professional engineer, but likewise, has increased the salary scale to a point where the director of highways receives more financial remuneration than the Governor himself. O. S. P. E. is also sponsoring legislation to return this qualification to the law.

The Highway Functional Group has been instrumental in being a fact-finding organization, one which has thoroughly aired their ideas and programs in regard to their salary scale and the thinking developed has resulted in the Ohio Society of Professional Engineers appearing before the State Highway Department and the State Civil Service Commission in this matter. The O. S. P. E. is of the opinion that our unified action resulted in favorable accomplishment. In both instances, the recommendations in these matters were those of the Ohio Society of Professional Engineers and, as such, carried much more weight than if they had been made by a small group of highway engineers which could immediately be pinpointed as a self-interest activity.

The Private Practice Functional Group, for example, has been very active on many fronts, and it is difficult to select any one thing and say it is their most outstanding accomplishment. *One very worthy project was the development of the Code of Professional Practices.* This also includes fee schedules for engineering service, which has been revised 4 or 5 times since their original adoption. The Private Practice Functional Group has further devised a very acceptable short form agreement between owner and engineer for professional services. Likewise, standard form of agreement between engineer and architects for professional services has been developed. They have established canons of ethics for engineers and rules of ethical practice. *These codes have been distributed through O. S. P. E. to all public bodies in Ohio to assist in guiding them in their dealings with engineers.*

Our freshman group, in contacting, was successful in convincing the Ohio Society to take a stand in the Bacon-Davis Act on the federal government level. They are presently very instrumental in the Ohio Society being ever-prepared to handle the very evident unionization

problem, which is facing the engineer in the field of contracting.

Our County Engineer Functional Group, several years ago, was instrumental in asking the Ohio Society to promote legislation which would require that the 88 county engineers in Ohio be registered professional engineers. This activity was culminated successfully.

All these activities have been directed to the trustees of the Ohio Society with final action by the Board of Trustees in presenting the material to the public. As an example, this permits for the 3% of our members interested in the educational field to provide a unified front of 4,071 members in the Ohio Society of Professional Engineers when definite action is apparent which will be advantageous to the profession and not detrimental to any faction.

Originally, the functional group plan was established for operation largely at the annual meeting. This continues to be the principal occasion when a large gathering is given the opportunity of meeting and discussing their problems, but as I have explained, all groups are beginning to expand their programs with additional forum type meetings.

To supplement activities I have mentioned, the Ohio Society has successfully held two functional group workshops and our third is now being planned for June 15th at Ohio Wesleyan University. Last year, the theme of our workshop was "*Leaders in the Parade*," and at our morning session where all Functional Group Executive Committee members gathered, we discussed such matters as how can we improve the State level organization of functional groups, what methods will make best use of the Ohio engineer for functional groups and, in addition, we devoted considerable time to membership possibilities through functional groups.

Our afternoon session at this workshop consists of individual planning meetings by functional groups. To complete our program, we reconvene in full session, roll up our sleeves and develop such ideas as the editing of the forthcoming functional group manual.

As we have progressed through the years, it has become increasingly apparent that it is necessary to have some comparable approach at our chapter levels as well. This has been done in some of our larger chapters by having functional group directors representing each of our authorized functional groups as members of their boards. Some chapters have committees corresponding to our State level functional groups or, at least, representing some of our State level functional groups. Whatever the local chapter vehicle, we have learned by experience that it is necessary to have some means of transmitting the functional group concept to the chapters where applicable. This is evidenced again by the fact that our lifeline of survival is at the grass roots level.

When our functional group plan was first initiated, fear was expressed by some that the groups might become too strong and, thus, overshadow the parent organization. We know, of course, most of the things we fear

never happen, which is true in this instance, and after 17 years of operation, we now recognize we would have cause to have been more fearful if we had not made provisions for the groups to come into being.

For instance, you are undoubtedly aware of the very recent move of the engineers in private practice to set up a separate federation of consulting engineers. We, in Ohio, and I speak with authority, since I am a private practitioner, feel that we have successfully thwarted the progress of this splinter organization and have a very realistic, hard-working, satisfied group of members of both principles and employees, still operating within the framework of the Ohio Society of Professional Engineers.

We look about us now and see evidence that if we had not proceeded as we did on the various occasions, our members would have been dissatisfied in not having a group to which their particular views relating to professional, ethical and economical values might be formulated.

We know the functional group plan of operation has even greater potential than we have realized to date. We are pleased that the N. S. P. E. directors have recently approved the functional group plan and principle, and we sincerely hope and recommend to you members of the Illinois Society that you will find a worthwhile endeavor in this field of activity.

In examining the potential of functional groups under the committee which is studying the manual of policy and operation, we believe the time is not too distant future when the Ohio Society will have executive secretaries on a part-time or full-time basis to look after and co-ordinate the efforts of some of these groups. At our recent convention, our Private Practice Functional Group assigned a committee to undertake and search for such an executive secretary.

The only limit to the possibilities for positive action under this method of operation is the lack of vision on our part in being alert to adapting ourselves to ever-changing conditions. The fact that we have been content to operate in a certain fashion last year is not a reason for continuing in the same manner today. We, in Ohio, are firm believers that everything, including stagnation, comes to him who waits.

As is often said, the future belongs to those who prepare for it. I'd like to offer that challenge to each one of you as members of the Illinois Society of Professional Engineers. The professional movement can still grow in membership. We can still improve our services and we can mature to the extent that the engineering profession can exemplify unity and command respect of the public at large.

"I wasn't born in a log cabin," declared the candidate, "but my folks moved into one as soon as they could afford it."—*Anderson (S. C.) Independent*.

ENGINEERS—UNIONIZATION

The A.F. of L.-C.I.O. United Auto Workers in convention at Atlantic City, New Jersey on April 1 adopted changes in the Union's Constitution which represent a significant modification of the industrial union principle on which U.A.W. was built. By an overwhelming majority the union granted special rights of representation to skilled workers and other minority groups in collective bargaining. The special rights included one to vote on contract sections applying specifically to them and even to take separate strike action.

Engineering and technical workers were not specifically mentioned in the constitutional change; however the union Vice President told delegates that the changes will make it possible for U.A.W. to carry out the task it is now undertaking, namely that of organizing engineers, technicians and office workers in the auto, aircraft, agricultural, implement and related industries.

In a recent Engineering Employment Practices News letter N.S.P.E. told the story about the disaffiliation of the federation of Honeywell Engineers from Engineers and Scientists of America and affiliation with U.A.W. as Local 1701.

Unions are showing much more interest in organizing white collar workers now than they have been previously because a recent survey shows that the percentage of these workers in industry has risen from 22% to 31% at present with the forecast that the percentage might go up to 40%.

From the above it will be seen that engineers are going to be faced with considerable more pressure to become affiliated with unions in the next decade than they have ever been before.

Charlie was the most bashful lad in the English village. Naturally, the members of his family were astonished when he told them one evening that he was going courting. After spending an hour getting ready, he set out. He returned half an hour later, looking very pleased with himself.

"You're back early," said his mother. "How did you get on?"

"All right," replied Charlie with a grin.

"Did you see her?"

"Ay, I did. An' if I 'ad'nt ducked down be'ind the 'edge she'd 'ave seen me, too!"—*Capper's Weekly*.

Two chums met at a trade convention 20 years later. One said, "And how is your wife?" The other replied, "My wife is in heaven."

The first one blushed and blurted out, "Oh, I'm sorry." Then he quickly realized that was not the thing to say, so he changed to, "I mean, I'm glad." And that was even worse.

At wit's end he finally came out with, "Well, I'm surprised."—*Indianapolis Times*.

FUNCTIONAL SECTIONS ORGANIZE

Seven Functional Sections held group meetings following the fine talk given by Mr. Alfred Samborn on April 12. During the discussion periods the chairman of each section was asked to supply a report of the deliberations of the group for use in the Illinois Engineer. Six of these reports have been received by the Editor and are given below. Please note that it was necessary to do some editing and condensation.

Report of the Engineers in Private Practice Functional Section

Twenty-five members of ISPE met to consider organizing a functional section for Engineers in Private Practice. F. W. Edwards presided.

The group voted to establish a Functional Section. Temporary officers were elected as follows:

Chairman—Frank W. Edwards
Vice-Chairman—Charles N. Debes
Secretary—Linus H. Brown
Director—J. R. Gardner
Director—Harold F. Sommerschild

This committee was directed to prepare detailed plans for establishment of the functional section for consideration at the proposed workshop meeting to be held during the summer.

Provision for Functional Sections at the National and State level were reviewed. Suggested rules and by-laws for organization and operation of a State Functional Section were presented briefly to the group.

Particular attention was directed to the probable relationship between the Illinois Association of Consulting Engineers and the proposed functional section. Accomplishments of the IACE to date also were presented.

Alfred H. Samborn, President of the Ohio SPE, participated in the discussion.

FRANK W. EDWARDS, *Chairman*

Report of the Surveying Functional Section

The meeting was opened by Arnold Lundgren, Acting Chairman. A brief outline of the purpose behind the forming of the Functional Section was given. Three sources were given from which a helping hand could be expected:

- (1) NSPE
- (2) Extension Division of University of Illinois
- (3) American Congress of Mapping and Surveying.

Professor W. H. Eldridge reported on the results of a questionnaire sent to 450 engineers concerning interest in surveying. Replies were received from 120 men. An open discussion was held covering the various phases of land surveying and the future development of the section.

The following officers were then elected:

Chairman—Arnold Lundgren
Vice-Chairman—George Chlebicki
Secretary—W. J. Reese

It was unanimously decided that the Surveying Func-

tional Section should operate under the suggested Rules and By-laws for Functional Sections of the Illinois Society of Professional Engineers until further notice.

Motion was made and unanimously adopted that the Secretary send letters to the Executive Secretary asking that the local chapters call a functional meeting as soon after May 1 as possible for those members that wish to be in the Surveying Functional Group. Each local group should notify the Secretary, W. J. Reese at as early a date as possible.

There were nineteen in attendance.

W. J. REESE, *Secretary*

Report of the Public Utilities Functional Section

Discussion was led by Acting Chairman Gordon Carlson on By-Laws for Functional Sections of the NSPE and suggested By-Laws for ISPE Sections.

The four members present suggested that the 40-plus names listed as interested in this Section be circularized with a letter to ascertain exact number interested.

Mr. Gray, Acting Secretary, offered to draft such a letter and submit it with copies of the minutes to the members present. They are to forward the letter with criticisms to Mr. Carlson who will make necessary corrections and work with ISPE office to circularize list of interested engineers.

W. S. GRAY, *Secretary Pro-tem*

Report of the Highway Functional Group

The meeting was called to order by Kenneth Welton, Chairman with D. S. Magowan volunteering to keep the minutes. There were fifteen engineers present.

A discussion on the pros and cons of a functional group was held.

It was then moved and seconded that a Highway Functional Group be formed as a discussion group.

The following were duly elected to office:

President—Kenneth Welton
Vice President—R. A. Lonier
Secretary-Treasurer—D. S. Magowan
Assistant Secretary-Treasurer—Oscar Frost.

The following program was adopted:

1. Promote activities for ISPE and NSPE which will be beneficial to the profession, to those in the functional field concerned or to the public.
2. Evaluate and formulate reasons why engineers in their respective functional fields should be
 - a. Registered Professional Engineers
 - b. Members of ISPE

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3. Encourage or sponsor short courses, institutes, night classes, conferences, etc. for engineers and engineering assistants.

4. Recommend improvements in statements of ethics and policies for their respective functional fields, for approval or adoption by ISPE and NSPE.

5. Recommend to the Legislative Committee changes and improvements in state and national laws.

6. Assist other committees such as Fees and Salaries, Ethics and Practice, Chapter Activities, State Engineering Employees, State Building Code, Membership, Professional Education, Public Relations and Publicity, by supplying pertinent information and suggestions.

7. Recommend to incoming presidents, members of functional sections for appointment to state committees.

8. Devise means for assisting young engineers in their professional development.

D. S. MAGOWAN, *Secretary-Treasurer*

Report of the Industrial Functional Section

Officers elected were:

Chairman—Manuel Garcia

Vice Chairman—Francis S. Weir

Secretary-Treasurer—Melvin Toepke

Representative—John Henline

It was moved that the Executive Committee of the Section study, recommend and present a constitution and by-laws for approval of the Industrial Functional Section.

It was recommended that the Executive Committee of the Section meet the same day as the Board of Direction meeting, and that the general meeting be scheduled at the Workshop Conference at Allerton Park, if held this year. A discussion of the number and time of meetings, dues, program, mailings, etc. was held with action on all matters deferred to a later date. Eighteen persons were present at the meeting.

MELVIN TOEPKE, *Secretary-Treasurer*

The trouble with telling a good story is that it reminds the other guy of a dull one.—*Post-Holl Syndicate*.

The head of a local business recently returned from his annual two weeks with pay. "How was your vacation?" inquired an office worker.

"Fine," he replied, "but there's nothing like the feel of a good desk under your heels again."—*Louisville Courier-Journal*.

It is admirable to fight for a principle but be sure it's a principle, not a prejudice.—*National Parliamentarian*.

An opportunist is someone who, finding himself in hot water, decides he may as well have a bath anyway.

It's bad to act like a fool, but it's worse when you're not acting.—*Atlas News*.

Report of the Education Functional Section

Fourteen members of ISPE met to consider the formation of an Education Section within the Society.

It was the consensus of the group that more participants from industry would be desirable for such a section. Only two of those present were not engaged primarily in education. Also, most of those present had not been sufficiently acquainted with the proposal to give it necessary thought. As a result, the group unanimously approved the motion that:

"We recommend to the Board of Direction that a special committee be appointed to study further the feasibility of an Education Section and recommend what steps be taken towards forming one. This committee should consist of representatives from the engineering schools in Illinois and an equal number from industry."

The following thoughts were expressed during the meeting:

(1) Care should be taken that such a section should not duplicate nor conflict with the interests of the American Society for Engineering Education.

(2) Some doubt was expressed that there is enough interest among members of the Society to get the section started properly and keep it going.

(3) It was thought that the Education Section could help the program of the Future Engineers of America.

(4) The ISPE is in a better position to work on legislative matters than the ASEE and in that respect an Education Section might be quite helpful to the ASEE.

(5) One possible area of activity of the Education Section is the promotion of extension courses and other education programs throughout the State.

(6) One possible value of an Education Section is that it could serve to encourage support from industry for engineering education.

L. E. DOYLE, D. F. HANG, *Temporary Co-Chairmen*

Old age, believe me, is a good and pleasant time. It is true that you are quietly shouldered off the stage, but then you are given such a comfortable front seat as spectator, and if you have really played your part you are more content to sit down and watch.—*Jane E. Harrison, Lifetime Living*.

It's never so bleak that it can't be bleaker . . .

There might have been a second speaker!—*Robert Dale*.

A young industrialist, after a particularly brutal session in a sand trap, sought to relieve the uncomfortable silence by cheerfully declaring to his caddy: "Golf's a funny game." "'Tain't meant to be," the boy morosely replied.—*Australian Mfr*.

A conscience is the impediment which so often rudely interrupts when money is talking.—*Cincinnati Enquirer*.

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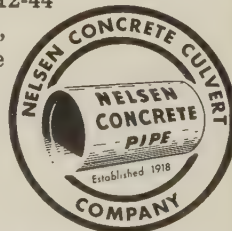
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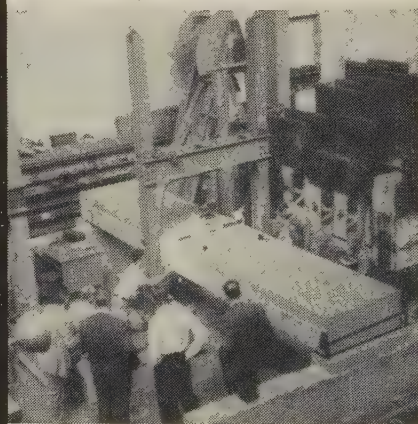
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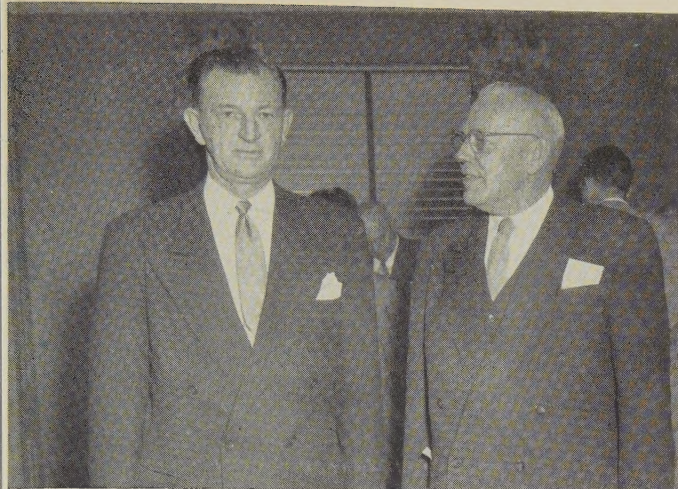
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L. R. "Gus" Schemmel and Lloyd Miller, hosts at the Streator Drain Tile Cocktail Party.

72nd Annual Meeting Cocktail Parties

On Thursday night the Illinois Concrete Pipe Association hosted a cocktail party in the George Bernard Shaw Room of the Sherman Hotel. An elaborate array of hors d'oeuvres were served with the cocktails from 5:30 to 7:00.

On Friday night, April 12, the hosts of the cocktail party in the George Bernard Shaw Room were the Streator Drain Tile Company and the American Vitri-fied Products Company. The cocktail party began at 5:30 and ran until the Banquet service started at 7:00 o'clock.

In spite of the fact that many members individually thanked the hosts of the two parties, this is an official recognition for the record that the Illinois Society was both pleased and thankful for the good fellowship, conviviality and general enhancement of good relations between the engineers and the two groups who furnish material for engineers to work with.



Four Wallaces, W. Wayne, his wife, Orville; Carolyn, wife of Dwain and Dwain M. enjoy the 73rd I.S.P.E. Annual Banquet.

A hobo, justifying his vagrant life to an energetic business man, said: "Listen, pal! I ain't one of your depression tramps; I was a tramp in the BOOM!"—*Hjemmet* (Denmark).

Report on Present Status of the Illinois Engineering Council's Legislative Program

At the 72nd annual meeting of the Illinois Society of Professional Engineers its Board of Directors passed a resolution to withdraw its recommendation that the Council introduce Bills for amendments to the Cities and Villages Act, to provide that the City Engineer be a Registered Professional Engineer, and that a Registered Professional Engineer be appointed to the Electrical, Zoning, etc., Commissions.

The nine Bills for amendments to the Registered Land Surveyors Act, the elimination of the County Surveyor's office, and the substitution of the words "Registered Land Surveyor" for "County Surveyor" wherever it appears in the statutes, will be introduced by Representative Charles K. Willett, (R) Dixon, on April 23.

The Architects introduced a Bill for amendments to the Illinois Architectural Act in substantially the same form as submitted in the 1955 session of the legislature. As suggested by the Committee, the President wrote Mr. Stouffer, President of the Architects Association of Illinois that under the circumstances the Council has no choice, despite its sincere desire to cooperate, but to oppose its passage. Mr. Stouffer expressed surprise that the Council's objections had not been met, and wrote Mr. Kane, chairman of the A.A.I.'s legislative committee, on March 28 requesting him to contact us. Nothing further has been heard to date.

L. M. SPURLING, *Chairman*
Legislative Committee

LADIES' AUXILIARY

The DuKane Chapter Unit of the Ladies Auxiliary held an election of officers on Thursday, March 28 and elected the following officers:

Mrs. George M. Booth, Jr., Elgin—President
Mrs. Chester Obma, Aurora—Vice President
Mrs. John Fast, Aurora—Secretary
Mrs. John Frederick, Elgin—Treasurer
Mrs. Richard Thornton, Aurora—Board of Directors



Speakers Table at the 73rd Annual Luncheon. Left to right: D. M. Wallace; A. H. Samborn, Ohio Society President; Royce E. Johnson; Rabbi M. Kliers; V. E. Gunlock; Robert J. Rhinehart, N.S.P.E. President; W. Wayne Wallace; A. W. Neureuther.

AGRICULTURAL ENGINEERS TO MARK SILVER ANNIVERSARY

By FRANK B. LANHAM

Next September will mark the 25th Anniversary of the Professional Agricultural Engineering Curriculum at the University of Illinois. The occasion will be appropriately observed on Homecoming Week End, October 18-20. Friday evening will find alumni, faculty and friends reminiscing and enjoying good food and fellowship in Latzer Hall. Earl D. Anderson, president-elect of the American Society of Agricultural Engineers and Agricultural Engineer, Stran-Steel Corporation, Detroit, will be the featured speaker.

Saturday morning a department open house is planned. A short program is being arranged featuring a projection of the agricultural engineering profession in Illinois agriculture in the next quarter century using as a basis the near spectacular engineering developments in agriculture during the past 25 years.

Over the years the educational philosophy of the Agricultural Engineering Department at the University of Illinois has reflected the firm belief that the Agricultural Engineer must have sound training in engineering fundamentals. Only in this way can he look forward to an engineering career of maximum service to the agricultural industry. For agriculture challenges the engineer with a complex of soil, weather and biological variables that are subject only to partial control.

The demand for agricultural engineers continues strong and especially for those capable of dreaming big dreams and with the ability, initiative and determination to bring them to fruition. Application of engineering principles and techniques to agricultural problems is not limited to production but may involve marketing as well. Relatively small agricultural enterprises involving sorting, grading, packaging and transportation of farm products may well be a profitable approach toward eliminating some difficulties in the present agricultural economy.

What are some of the dreams an agricultural engineer might dream? They could include the rapid, practically instantaneous, drying of shelled corn by electrical energy while the grain is enroute from field to storage; an automatic tomato picker using light as a measure of suitable fruit color and mechanical fingers to harvest the fruit and field package it; and a completely mechanized farm operation including remote controls and proper integration of field and farmstead operation. Agriculture is an important industry; one which affords ample opportunity for the best efforts of the engineer.

At the University two programs of study are offered. A four-year curriculum leading to the Bachelor of Science Degree in Agricultural Engineering is administered in the College of Engineering. A five-year program is also available to students desiring the same

fundamental engineering training plus added emphasis in the agricultural sciences.

In his high school program the prospective agricultural engineering student should emphasize mathematics and English. He should take every opportunity to improve his ability of expression both orally and in writing. To begin the study of professional Agricultural Engineering at the University of Illinois the high school graduate should have three and one-half years of high school mathematics including advanced algebra and trigonometry. Certain entrance deficiencies may be made up after entering the University, but a high school background strong in mathematics and English is to be desired.

Various publications are available to young men faced with the opportunity of choosing a vocation including a recent leaflet entitled "Steps to Your Career in Agricultural Engineering." Visitors to the Department are always welcome.

The teacher was giving her class an example of ancient language. "Now, Gene," she said to a pupil, "give me an example of a modern-day sentence which conveys the meaning, 'Thou art good.'"

The pupil paused for a few moments of meditation, then his face lighted up with sudden understanding as he said: "I dig you, cat, and you're real crazy!"

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NSPE ANNUAL MEETING

The 23rd Annual Meeting of the National Society of Professional Engineers will be held in Dallas, Texas June 5th to the 8th. Besides professional meetings a conference on professional development of young engineers will be held.

Granville M. Read, Chief Engineer for E. I. du Pont de Nemours & Company, will receive the NSPE Award for 1957.

Moderators of various conference groups for the professional development of all young engineers are as follows: Wayne E. Ault, Anthony J. Del Mastro, and Linas H. Brown.

During the three days of professional meetings, the officers and members will discuss federal policy regarding the teaching of mathematics and science in the high schools, problems of engineering schools, the ideal registration law developed by the Society, and a full agenda of other matters concerning the engineering profession.

The National Society of Professional Engineers is made up of approximately 40,000 registered, professional engineers in all the technical branches. The members are affiliated through 42 state societies, and over 350 local chapters. A petition for affiliation by the Wyoming Society of Professional Engineers will be presented and voted on at the Dallas meeting.

A man had barely paid off his mortgage on the house when he mortgaged it again to buy a car and then borrowed money to build a garage. "If I do make the loan," said the broker, "how will you buy gas for the car?"

"It seems to me," the man replied curtly, "that a fellow who owns his own house, a car and garage should be able to get credit for gasoline."—*Woodmen of the World Mag.*

A doctor tells about the old gent who was very sick. So sick, in fact, that his family was gathered at the bedside. As families will do, they all were trying to cheer him up. "Your color is better," a son said.

"You're breathing easier," another remarked.

"Thank goodness," sighed the old man. "It's nice to know I'm going to die cured!"—*Louisville Courier-Journal Mag.*

EXPERIENCE: Business man's definition of his own mistake.—*Cambridge (England) Daily News.*

People write milkmen the darndest messages! The Borden Company has made quite a collection of these items gathered by routemen. Some are richly laden with unconscious humor. Others ask only for understanding: "If you are the same milkman who saw me stagger in yesterday, please forget it. I'm trying to!"—*Blubook.*

NEWS OF THE CHAPTERS

AMBRAW CHAPTER held its April meeting on the 18th at the U. S. Grant Hotel in Mattoon with 23 members and guests present. Following dinner Chapter Representative Henline gave a short resume of the 72nd Annual Meeting. Program Chairman Dolbow then introduced Oscar Olden of the Blaw-Knox Company who gave a brief description of the company's new Mattoon plant. The group adjourned to the plant where two films were shown of the company's products in field operation. This was followed by a very interesting tour of the huge manufacturing building.

CAPITAL CHAPTER met at the Elks' Club in Springfield on April 29 with an interesting program designed to further the efforts to inform youth about engineering careers. All high school counselors and math and science teachers in the area were invited. Dean Everitt of the College of Engineering, University of Illinois gave a five minute "Pep Talk" to these men. Professor Jack Briscoe, C. E. Department, U. of I., showed colored slides of engineering projects visited last summer.

CENTRAL ILLINOIS CHAPTER held a dinner meeting at the Blue Mill in Decatur on April 25. Mr. Stuart A. Hilyard of the Illinois Power Company gave an interesting talk titled, "Introduction to the Atom and Safety Experiments." His talk was followed by the twenty-five minute sound film, "Safety Experiments with a Boiling Water Reactor."

DU KANE CHAPTER held its April meeting on the 18th at the St. Andrews Golf Club in DuPage County. O. B. Dold was chairman of the occasion. Through the courtesy of Midwest Prestressed Concrete Company the engineers were presented an hour and half program of colored films, which were narrated by Robert Dold, sales engineer of the company. Mr. Dold answered many questions in the discussion which followed. A report on the 72nd Annual Meeting was given by Francis Weir.

LAKE COUNTY CHAPTER held its April meeting on the 17th at Hank's Supper Club with thirty members and guests present. R. M. Brown introduced Dr. Edwin R. Whitehead, Director of the Electrical Engineering Department at Illinois Institute of Technology, who discussed the trend of changes in engineering education during the last 25 years. Following Dr. Whitehead's talk Irwin Lietzke reported on the State Board Meeting and Sidney Danoff reported on the Annual Business Meeting. A report on the organization of Functional Sections was given by Mr. Simonson.

A penny saved is more than a penny earned. You've got to figure taxes in there somewhere.—*London (Ohio) Press.*

When the young complain to you about the old and the old complain to you about the young—you're middle aged.—*Bakers Review.*

ILLINOIS VALLEY CHAPTER held its April meeting on the 8th at Hotel Kaskaskia, LaSalle, with 24 members and guests present. After the business meeting, Harold Moloney, program chairman, introduced Mr. William Hummer of Wayne Hummer Company of Chicago who spoke on "What to Look for in Investments" and "The Market Outlook." His excellent talk was followed by a question and answer session.

JOLIET CHAPTER met on April 16 at the Candlelight in Joliet. Chapter Representative Bill Gray reported on the excellence of the 72nd Annual Meeting. Chapter President Robert Brown reviewed the Central Illinois Chapter resolution and then introduced ISPE President Andrew W. Neureuther, who gave a very interesting talk on professionalism. President Neureuther presented his definition of "professionalism" as an equation: Professionalism = diligence + competence + good judgment + ethics + taking of responsibility.

ROCK RIVER CHAPTER met on April 1 and heard an excellent talk entitled, "Prestressed Concrete Bridges on the Illinois Toll Road" by George F. Bishop, Assistant Bridge Engineer for Joseph K. Knoerle Associates of Chicago. Considerable discussion and questions followed his talk. After refreshments the regular business meeting was held. There were 20 members and guests in attendance.

WEST CENTRAL CHAPTER held a meeting on April 17 at the Elks Club in Galesburg. Louis Pappmeier gave a summary of the 72nd Annual Meeting and Clifford Missman explained the Central Illinois Chapter resolution on dues. Following the business meeting Kenneth Hardine introduced Mike C. Caine, Sales Representative for the Peoria Tractor and Equipment Company, who presented a color sound film of "The Eighth Sea," which pictured the construction of the St. Lawrence Seaway.

After a long, boring evening, the young man finally succeeded in stealing a goodnight kiss from his young lady companion. "That's your reward for being a gentleman," the girl murmured.

"Reward?" scowled the annoyed young man. "That's just workman's compensation." — *Pacific Oil-Motive Mag.*

If you want to go thru life completely misunderstood, say exactly what you mean. — S. J. Mann.

Then there was the mountaineer who used a silencer on his gun. His daughter wanted a quiet wedding. — Doc Anklam.

Speaker at a convention the morning after the big banquet: "I actually feel like one of you. I don't know which one, but he ought to be upstairs in bed!" — *Mutual Observer.*

LETTER TO THE EDITOR

April 24, 1957

Dear Sir:

We are writing to you to inform you of the 1957 Gas Dynamics Symposium and to request your aid in bringing it to the attention of your readers.

As you know the American Rocket Society and Northwestern University initiated a series of bi-annual symposia in specialized fields of Gas Dynamics. The first of these was held in 1955 and dealt with Aerothermochemistry. The second and forthcoming symposium will be held August, 1957. Its theme will be "Transport Properties in Gases at High Temperatures and Pressures." Various organizations from the government and private industry are joining the sponsors in supporting this meeting.

One object of the 1957 conference will be to define the art in both theory and experiment for the determination of the transport properties of gases, with particular reference to extreme conditions. Another object will be to indicate present and future needs for data with respect to application and design, as well as the advance of pure science. A third object will be to point up promising avenues of future research, both theoretical and experimental. It is hoped that the symposium will be of interest to scientists and engineers concerned with research and development entailing the transfer of mass, energy, and momentum. A select group of speakers will lecture and lead discussions in their fields of specialization.

It is planned that the lectures will be preprinted and available at the time of the symposium. The Symposium will be held on August 26-28, 1957 at the Technological Institute of Northwestern University in Evanston, Illinois. Limited housing and meals will be available in university dormitories. A nominal registration fee will be charged of registrants whose employing organizations have not contributed to the conference. A detailed program will be available at a later date. Inquiries may be addressed to:

Dr. Ali Bulent Cambel
Gas Dynamics Laboratory
Northwestern University
Evanston, Illinois, U.S.A.

We shall greatly appreciate your calling this matter to the attention of your readers. We would like to thank you in advance for your kind cooperation.

Yours very truly,
ALI BULENT CAMEL
Professor of Mechanical Engineering

A golfer, trying to get out of a trap, said to a fellow player, "The traps on this course are very annoying, aren't they?" The second golfer, trying to putt, replied: "Yes, they are. Would you please close yours?" — *Arkansas Methodist.*